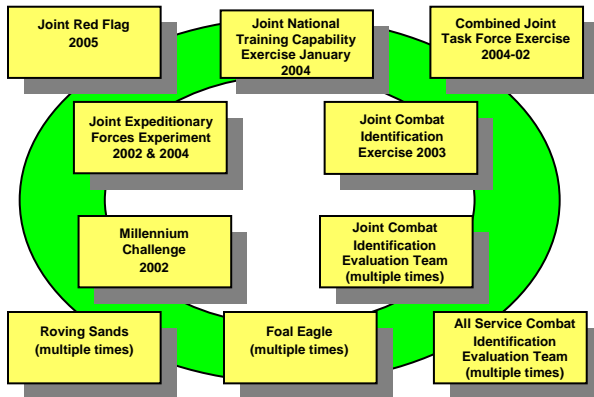## PAST EXERCISE SUPPORT

Since 1998, the JOCAT has deployed over 30 joint/combined exercises supporting combatant commands such as Joint Forces Command, Pacific Command, US Forces Korea, and the Air Force Experimentation Office.

Joint Red Flag 2005	**Joint National Training Capability Exercise January 2004**	**Combined Joint Task Force Exercise 2004-02**
Joint Expeditionary Forces Experiment 2002 & 2004		**Joint Combat Identification Exercise 2003**
Millennium Challenge 2002		**Joint Combat Identification Evaluation Team (multiple times)**
Roving Sands (multiple times)	**Foal Eagle (multiple times)**	**All Service Combat Identification Evaluation Team (multiple times)**

POINTS OF CONTACT

For additional information on the JOCAT, its capabilities, and potential support, contact:

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Defense Information Systems Agency
Department of Defense

We do not want the battleground of tomorrow to become the testing ground for systems acquisitions.

Joint Interoperability Test Command

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Increasing Combat Effectiveness

Through Interoperability

JOINT OPERATIONAL C4I ASSESMENT TEAM (JOCAT)

Joint Interoperability Test Command

INTRODUCTION

The Joint Operational Command, Control, Communications, Computers, & Intelligence (C4I) Assessment Team (JOCAT) is a deployable Link 11 and 16 tactical data link (TDL) data collection, analysis, and assessment capability supporting exercises, testing, and real-world contingencies. The JOCAT serves as Joint Interoperability Test Command's (JITC's) field capability in meeting its Variable Message Format (VMF) and Link 11/16 interoperability certification mission. The team combines highly experienced professionals (engineers, operational analysts, and TDL analysts), and JITC automated toolsets developed in-house as well as off-the-shelf toolsets.

As a deployable asset, the team tailors both personnel and toolsets to meet the customer's specific requirements. For non-tactical environments, the team can work inside dedicated office space. For tactical environments, the JOCAT has self-contained shelters. For laboratory support, we use a persistent Joint Training and Experimentation Network node as part of USJFCOM's Joint National Training Capability located at Fort Huachuca.

CAPABILITIES

JOCAT provides both technical and operational assessments to include recommendations for system and networks improvement. During an exercise/event, the team provides technical, military standard, training, and operational support to the participants and the exercise/event leadership. The actual support the JOCAT provides depends on the event and the customer. JOCAT personnel participate in the exercise/event planning process to best identify the support requirements based on the exercise objectives, the participants, and the customer's specific requirements. The following paragraphs identify various types of support pro-

System Capabilities and Functionality Assessments. The JOCAT performs assessments of live, virtual, and constructive systems' ability to exchange information via the VMF K-Series, Link 16 J-series, and Link 11 M-series messages in accordance with their respective military standard to perform two critical functions for Warfighter success:

♦ The surveillance function (correctly reporting and updating an entity), and
♦ The engagement (control) function (engagement of designated targets to include battle damage reporting.)

TDL Network Assessments. JOCAT not only looks at the systems' capabilities to perform critical Warfighter functions, but also assesses the ability of the TDL network to support and provide the systems and their operators the correct environment in which to exchange information. Our premise in doing so is a network must support and provide the systems the correct environment to exchange information. Failure of the network to do so defeats the systems' and their operators' efforts resulting in incomplete single integrated air, space, and ground pictures (SIAP, SISP, and SIGP) and common situational awareness.

Target Engagement Success. JOCAT can automatically determine how well the Link 16 architecture and its participating systems support the combat identification, baseline information exchange, surveillance function, and engagement (control) function associated with HOSTILE air, land points/tracks, and space surveillance tracks. We call the process the kill thread. The results describe each kill thread success in terms of time, involved systems, and all their critical messages reported or not reported on Link 16.

Joint Interface Control Officer (JICO) Support. Working with JICO, JOCAT assists in the planning and pre-exercise development and assessment of network concepts, systems, and equipment. During the exercise, JOCAT continues supporting the JICO with system and network analysis.

Teaming. The JOCAT's philosophy is not to duplicate what other organizations do; rather, we leverage off of other organization's capabilities by teaming with them to serve as a multiplier maximizing the combined support to the Warfighter. Such a relationship has existed with the Joint Fires Integration and Interoperability Team since 2002.

Immediate Feedback. The JOCAT participation on-site during the exercise/event provides immediate feedback to the exercise director, the JICO, and the exercise participants on the TDL network operations and performance. By participating in the daily after action reviews, JOCAT provides yardsticks to measure the success of exercise and training objectives.

ROAD AHEAD

JOCAT toolsets are continually upgraded to meet customer requirements and analysis expansion, and we continue to seek teaming relationships with organizations to maximize support for the Warfighter. Our goal is to assess all TDLs. The intent is to provide feedback on systems and networks to digitally exchange information to perform functions that are critical to Warfighter success. We do not want the battleground of tomorrow to become the testing ground for systems acquisitions.